PowerWave PW4 Desktop Model

Installation Guide

8820-00289 AV69101-XXX-XXX

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INTRODUCTION

Congratulations and thank you for purchasing the guestLINK™ PowerWave PW4. This multimedia switch allows you to connect your TV display to standard- and high-definition (HD) video sources from across the room. Please review this User Manual carefully.

IMPORTANT SAFETY INSTRUCTIONS

Read before operating equipment.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Installation should be performed by a qualified installer.
8. During installation, observe all governing codes and ordinances.
9. This device must be electrically grounded in accordance with local codes or, in their absence, with the National Electrical Code ANSI/NFPA No. 70—latest edition in United Sates, or with CSA Standard C22.1, Canadian Electrical Code, Part 1, in Canada.
10. The electrical power to the device must be shut off while line connections are being made. Failure to do so could result in serious injury or death.
11. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
12. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

13. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

14. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

15. Only use attachments/accessories specified by the manufacturer.

16. Unplug this apparatus during lightning storms or when unused for long periods of time.

17. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way. Such damage includes: damage to the power-supply cord or plug; liquid spilled into, or objects fallen onto, the apparatus; the apparatus has been exposed to rain or moisture and does not operate normally; or the apparatus has been dropped.

18. This product may contain lead or mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org.

19. Objects and Liquid Entry – Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

Warning: To reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture, and objects filled with liquids, such as vases, should not be placed on this apparatus.

IMPORTANT SAFETY SYMBOLS AND DEFINITIONS

Alternating current

Protective earth (ground)

Attention, consult accompanying documents

Dangerous voltage

FCC DECLARATION STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. this device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

Communication Integrators, Inc., is not responsible for any interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate this equipment.

This appliance must be supplied with the proper voltage and frequency, and connected to an individual, properly grounded branch circuit, protected by a circuit breaker, having amperage as noted on the rating plate (the rating plate is located on back of the unit).

Observe all governing codes and local ordinances.

1. 240-volt, 50Hz, 12-Amp electrical supply is required.

2. Wire sizes and connections must conform to the rating of the appliance in accordance with the American National Electrical Code ANSI/NFPA No. 70—latest edition, or with Canadian CSA Standard C22.1, Canadian Electrical Code, Part 1, and local codes and ordinances.

⚠ WARNING

3. **An extension cord should not be used with this appliance. Such use may result in a fire, electrical shock, or other personal injury.**

⚠ WARNING

4. Electrical Shock Hazard
   - Electrical ground is required on this appliance.
   - Do not connect to the electrical supply until appliance is permanently grounded.
   - Disconnect power to the junction box before making the electrical connection.
   - This appliance must be connected to a grounded, permanent wiring system.

These appliances are manufactured with a white neutral power supply wire and a green grounding wire.

The main plug is regarded as the disconnect device; it must remain accessible at all times.

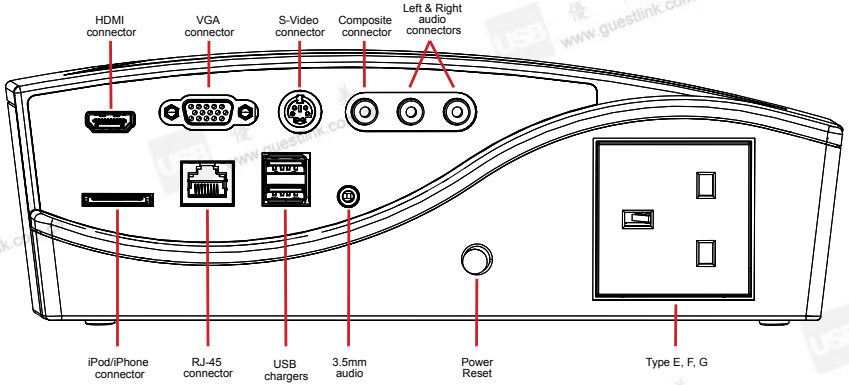
This device is to be connected to an outlet with a protective earth connection.

The PW4 is a desktop version of the PW4A, sharing the same electronic components, connectors, and user interaction. It has been developed to offer a very convenient audio video hub where users are able to connect all their audio video equipment, including Blu-ray® players, DVD or gaming consoles, iPod or iPhone devices for audio or video displays, laptops, and legacy components. Digitizing all analog and video sources, the PW4 connects to an HDTV via a single HDMI™ cable. Via an RJ45 jack, it can be connected to the in-room Internet port. It can also charge up to two phones or MP3 players thanks to its USB ports. It also provides two extra power plugs to power devices up to 9 Amperes.

PW4 Connections

Via the following connectors, users can connect their audio video devices.

- The HDMI connector is ideal for Blu-ray players, Sony® PlayStation® 3, Microsoft® Xbox®, as well as up-converter DVD players. The maximum resolution supported by the PW4 is 1080p at 60 frames per second (1920x1080 progressive). The PW4 is HDMI 1.3*-compliant and displays True Color when available. The resolution displayed by the PW4 depends on the source resolution as well as the TV resolution.
- Laptops can display a resolution of up to SXGA (1280x1024 at 60Hz) via the VGA connector. Specificities of multiple video cards present in laptops, and resolution supported by TVs, can limit the display output to a lower resolution (as low as 640x480 if the video card of the laptop supports it). The VGA connector does not conduct audio signal. A 3.5mm cable is necessary to connect the audio output of the laptop to the PW4. A VGA cable meeting the full VESA specifications is required. As such, pin-9 needs to be present on the VGA connector to enable the automatic detection of a source.
- The S-Video connector can display resolutions of up to 480i (NTSC) and 576i (PAL). As such, devices such as DVD players, and iPod and iPhone devices can be connected and will display the resolution of the source up to 480i or 576i. The S-Video connector does not conduct audio. A 3.5mm cable or a Left & Right RCA cable will be necessary to connect the audio output of the device to the PW4.

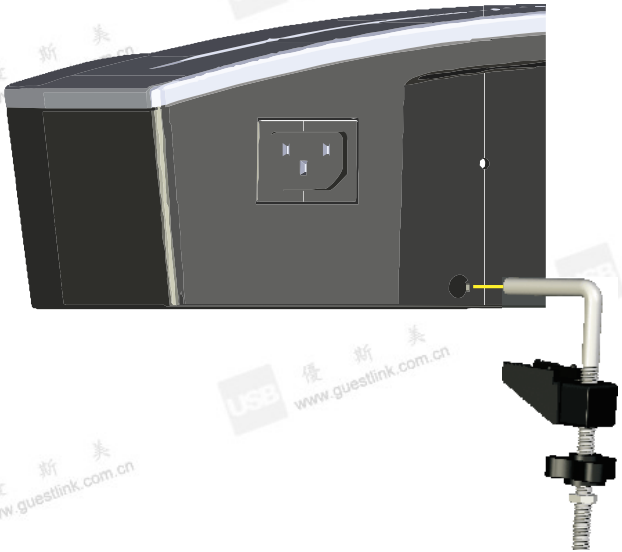


- The composite connector can display resolutions of up to 480i (NTSC) and 576i (PAL). As such, devices such as DVD players, digital cameras, and iPod and iPhone devices can be connected and will display the resolution of the source at up to 480i or 576i. The composite connector does not conduct audio. A 3.5mm cable or a Left & Right RCA cable is necessary to connect the audio output of the device to the PW4.
- The 18-pin connector supports all models of iPod, iPhone, and iPod touch via a 30-pin to 18-pin cable. It displays video resolution at up to 480i (maximum iPod/iPhone output resolution) or 576i. It also charges iPod and iPhone devices.
- RJ45 pass-through. A CAT5 or CAT6 cable needs to be connected at the back of the unit to enable a hard-wire network connection.
- Both USB connectors will charge popular cellular phones such as the BlackBerry®. The original cable supplied by the cellular phone manufacturer needs to be used to charge certain models.
- The 3.5mm audio connector can be used to connect any devices with a 3.5mm audio output to generate music through the PW4 into the speakers of the HDTV.
- Power plugs and circuit breaker: The power within the PW4 system is distributed through the 15-Amp circuit breaker. The circuit breaker trips when the total current drawn by the two AC plugs and the PW4 power supply board becomes equal to or greater than 15 Amps.

*The PW4 HDMI input complies with the following standards: HDMI V.1.3 and HDCP V.1.2. Older versions of these standards may not be supported.

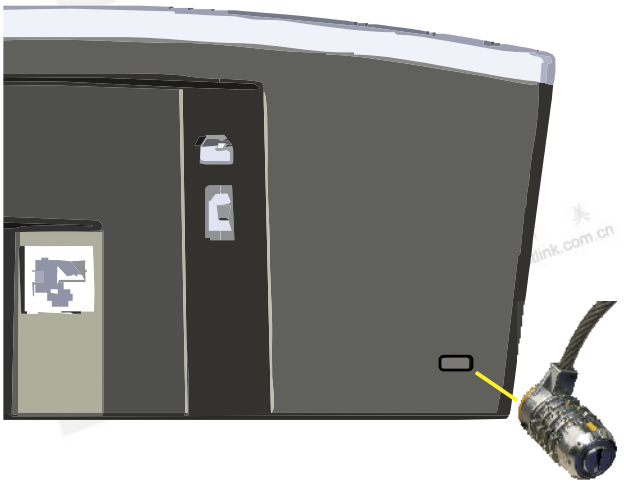
PW4 Clamping

The PW4 is supplied with a clamp that inserts into a cavity located on the right back panel.



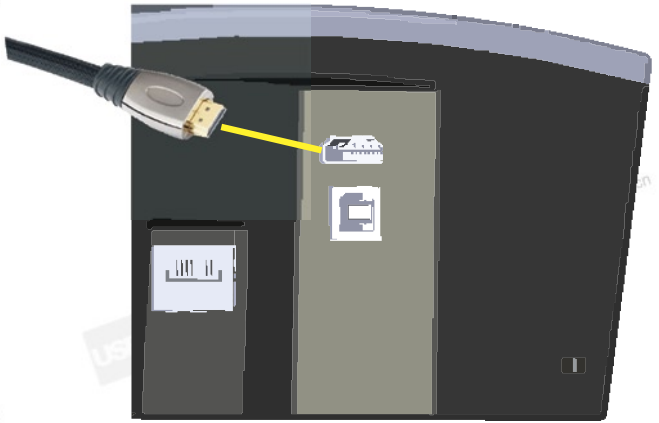
PW4 Lock Port

A lock, such as one used with a laptop, can secure the PW4 to any piece of furniture. A reinforced port is located on the right back panel.



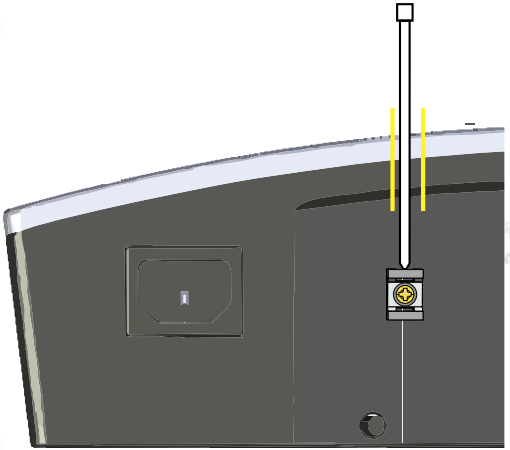
PW4 Rear Connection

An HDMI cable needs to be connected to the back of the PW4 to transmit audio video signals from the devices connected into the front panel to the HDTV. The other side of the cable will be connected to the HDMI input of an HDTV.



PW4 Cable-Tie Insert

A cable-tie insert is supplied to hold the HDMI cable in place. After inserting the HDMI cable as shown in illustration 4, insert the cable tie into the white clamp and fasten the HDMI cable. Make sure that the HDMI cable is well inserted before tying it.



PC RESOLUTIONS SUPPORTED THROUGH THE POWERWAVE UNIT

The following resolutions are supported by the PW4:

Video Standards	Resolution	Freq (Hz)	Supported by PowerWave	Flat Panels	
				720p (1280x720)	1080P (1920x1080)
VGA	640x480	60	Yes		
		72	Yes		
		75	Yes		
		85	Yes		
SVGA	800x600	60	Yes		
		72	Yes		
		75	Yes		
XGA	1024x768	60	Yes		
		72	Yes		
		75	Yes		
SXGA	1280x1024	60	Yes		

Samsung LN*nn*A450C1H and LN*nn*B457CSH (*nn* = TV size)

The LN*nn*A450 and LN*nn*B457CSH hospitality series support PC resolutions up to 1024x768 on HDMI 1 (back of the TV) and 640x480 on HDMI 2). Therefore, we suggest connecting the HDMI cable on receptacle HDMI 1.

Philips® *nn*HFL5830D/27 (*nn* = TV size)

The *nn*HFL5830D/27 supports PC resolutions up to 1024x768 at 75 Hertz. HDMI 2 supports more resolutions than HDMI1. We suggest connecting the HDMI cable on receptacle HDMI 2.

Curtis Matthews CMMX*nn* (*nn* = TV size)

The CMMX*nn* supports PC resolutions up to 1024x768 at 75 Hertz.

LG *nn*LC50 / CB / CS

The LG *nn*LC50 / CB / CS supports PC resolutions of up to 1024x768 on both HDMI 1 and HDMI 2 receptacles.

Sony® KDL-*nn*M4000/xx and KDL-*nn*SL140/xx

The following Sony HDTVs for hospitality are supported:

KDL-32M4000/xx • KDL-37M4000/xx
KDL-40SL140/xx • KDL-46SL140/xx
Where xx = /91 basic hospitality, no PPV provider; /92 advanced hospitality using RS232; /93 advanced hospitality using an MTI card slot.

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“Works with iPhone” means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards.

“Made for iPod” means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.